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Ref 9021003

EC-DECLARATION OF CONFORMITY

CE

The undersigned

dott. Luigi Carlon

legal representative of

INDEX Construction Systems and Products S.p.A.

address

Via G. Rossini, 22 37060 Castel D'Azzano - Verona

in compliance with the Directive 89/106/EEC, related to the construction products, declares that the products of family

HELASTOPLAN

are flexible reinforced bitumen sheets and are in conformity to the Annex ZA of the following standard

European standard	EN 13707	Flexible sheets for waterproofing- Reinforced bitumen sheets for roof waterproofing
	EN 13969	Flexible sheets for waterproofing- Bitumen damp proof sheets including bitumen basement tanking sheets
Type of compound	BPE	
Type of reinforce	Polyester and/or fiberglass	
Reaction to fire	Euroclass F	

Products technical specifications, in conformity to Annex ZA, are given with the accompanying document each delivery. Additional information are included in technical data sheets.

Methode of installation and intended use of the products are described on accompanying document and on technical data sheets. Specific information are available on application manuals issued by INDEX S.p.A.

The notified body Bureau Veritas (identified with N°1370) has approved the Factory Production Control (FPC), related to the a.m. products, with the issue of the Certificate of Conformity N° 1370-CPD-0040.

Date 11/02/2009

Signature 

Mod.1

HELASTOPLAN

• HELASTOPLAN POLYESTER
• MINERAL HELASTOPLAN POLYESTER
• HELASTOPLAN/V

REINFORCED ELASTOMERIC POLYMER-BITUMEN WATERPROOFING MEMBRANE MODIFIED WITH THERMOPLASTIC SBS RUBBER AND POLYOLEFINS

CATEGORY	CHARACTERISTICS
E	
ELASTOMERIC	WATERPROOFING

DESCRIPTION

HELASTOPLAN membranes are made up of an "inversion phase" compound of distilled bitumen, selected for industrial use, SBS rubber and polyolefins.
The elastomer, a thermoplastic rubber made up of radial styrene-butadiene copolymer blocks (SBS) forms the continuous polymeric matrix of the compound and the bitumen forms the dispersed phase. The polyolefins, which have higher heat resistant properties, are added to the compound in the form of bitumen-SBS to increase the rigidity of the membrane and to make it easier to apply during the summer months while most of the elastic properties of the bitumen-rubber compound remain unchanged. The ultimate elongation is higher than 1,500%, the flexibility in cold conditions is –20°C and the high adhesive properties also remain. The compatibility with other bitumen and the peeling strength of the joints is notably higher than that of normal polymer modified bitumen membranes. The membranes are produced in various weights and with various reinforcements.
HELASTOPLAN POLYESTER and **MINERAL HELASTOPLAN POLYESTER** are reinforced with a composite, high weight, rot-proof, "non woven" polyester fabric, stabilized with fibreglass mat. This reinforcement has a high tensile strength, is flexible and has optimal dimensional stability in hot conditions which reduces the problems of the banana effect and the retraction of head lap joints as it is 2 to 3 times more stable than normal reinforcements in "non woven" polyester fabric.
HELASTOPLAN/V is reinforced with rot-proof fibreglass mat which is strengthened longitudinally and has high dimensional stability properties.
The **HELASTOPLAN POLYESTER** and **HELASTOPLAN/V** membranes are coated on both faces with Flamina film, which retracts during torch-on and guarantees the welding of the joints and a fast and reliable adhesion.
Also the underside of **MINERAL HELASTOPLAN P** is coated with Flamina film, while the upper face is protected with hot bonded and pressed slate granules, with the exception of a slate free, lateral overlap strip, protected with Flamina film which melts during torch-on.

FIELDS OF USE

The **HELASTOPLAN** membranes retain the high elastic properties and the optimal resistance to stress at low temperatures of SBS-bitumen membranes combined with a higher rigidity in hot conditions which allows for easier application even during the summer months or in hot climates where there are more problems with the application of SBS-bitumen membranes. The **HELASTOPLAN** membranes are used in the building trade as a waterproofing element in more difficult situations such as cracking substrates or substrates subject to vibration. They can be applied in single or multi-layer systems which can also remain visible on thermal insulation, both on new work or for refurbishment:

- **On all inclined surfaces**: on flat, sloping and curved surfaces.
- **On different types of surface**: cast or prefabricated cement substructures, on metal or wood roofing, on the most common heat insulation used in the building industry.
- **For the most varied uses**: terraces, flat and sloping roofs, stress structures, foundations, car park roofs, under concrete topping, tunnels, subways and undergrounds.

HELASTOPLAN/V can also be used in single layers as a vapour barrier.
Installing double layer waterproofing systems made up of membranes reinforced only with fibreglass mat should always be subject to a carefully evaluation of the building context in which the system will be installed.

CE INTENDED USE OF "CE" MARKING SPECIFIED ACCORDING TO THE AISPEC-MBP GUIDLINES

EN 13707 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING

• Under layer or intermediate layer in multi-layer systems without permanent heavy surface protection
- HELASTOPLAN POLYESTER 3 kg/m²
- HELASTOPLAN POLYESTER 4 kg/m²
- HELASTOPLAN POLYESTER 5 kg/m²
- HELASTOPLAN/V 2 kg/m²
- HELASTOPLAN/V 3 kg/m²
- HELASTOPLAN/V 4 kg/m²

• Upper layer in multi-layer systems without permanent heavy surface protection
- MINERAL HELASTOPLAN POL. 4,0 kg/m²
- MINERAL HELASTOPLAN POL. 4,5 kg/m²

• Under heavy protection in multi-layer systems
- HELASTOPLAN POLYESTER 4 kg/m²
- HELASTOPLAN POLYESTER 5 kg/m²

EN 13969 - BITUMEN DAMP PROOF SHEET INCLUDING BITUMEN BASEMENT TANKING SHEETS

• Membranes for foundations
- HELASTOPLAN POLYESTER 3 kg/m²
- HELASTOPLAN POLYESTER 4 kg/m²
- HELASTOPLAN POLYESTER 5 kg/m²

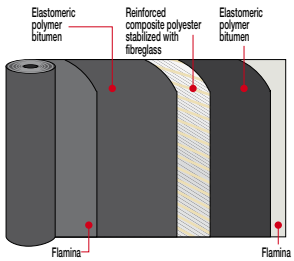
METHOD OF USE				
TORCH APPLICATION	HOT AIR APPLICATION	NAILING		

TECHCNICAL CHARACTERISTICS

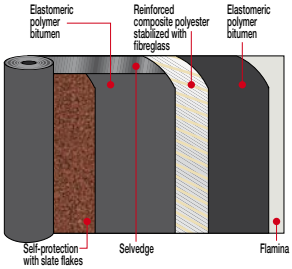
	T	HELASTOPLAN POLYESTER	HELASTOPLAN POLYESTER		MINERAL HELASTOPLAN POLYESTER		HELASTOPLAN/V		
Weight (EN 1849-1) Weight MINERAL (EN 1849-1)	±10% ±15%	**3 kg/m²** –	**4 kg/m²** –	**5 kg/m²** –	– **4,0 kg/m²**	– **4,5 kg/m²**	**2 kg/m²** –	**3 kg/m²** –	**4 kg/m²** –
Roll size (EN 1848-1)	≥	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m
Reinforcement		"Non-woven" composite polyester stabilized with fibreglass	"Non-woven" composite polyester stabilized with fibreglass		"Non-woven" composite polyester stabilized with fibreglass		Fibreglass		
Watertightness (EN 1928 - B method) • after ageing (EN 1926-1928)	≥ ≥	60 kPa 60 kPa	60 kPa 60 kPa		60 kPa 60 kPa		60 kPa 60 kPa		
Shear resistance (EN12317-1)	-20%	550/400 N/50 mm	550/400 N/50 mm		–		–		
Maximum tensile force Long./Trasv. (EN 12311-1)	-20%	550/500 N/50 mm	550/500 N/50 mm		550/500 N/50 mm		300/200 N/50 mm		
Elongation (EN 12311-1)	-15 V.A.	45/45%	45/45%		45/45%		2/2%		
Resistance to impact (EN 12691 - A method)		1.000 mm	1.000 mm		–		–		
Resistance to static loading (EN 12730)		15 kg	15 kg		–		–		
Resistance to tearing (nail shank) (EN 12310-1)	-30%	150/150 N	150/150 N		150/150 N		70/70 N		
Dimension stability (1107-1)	≤	-0,25/+0,10%	-0,25/+0,10%		-0,25/+0,10%		–		
Flexibility to low temp. (EN 1109) • after ageing at elevated temperature (EN 1296-1109)	≤ +15°C	–20°C –	–20°C –		–20°C –15°C		–20°C –		
Flow resistance at elevated temperature (EN 1110)	≥	100°C	100°C		100°C		100°C		
Reaction to fire class (EN 13501-1)		Euroclass F	Euroclass F		Euroclass F		Euroclass F		
External fire performance (EN 13501-5)		F_{roof}	F_{roof}		F_{roof}		F_{roof}		

MEMBRANE COMPOSITION

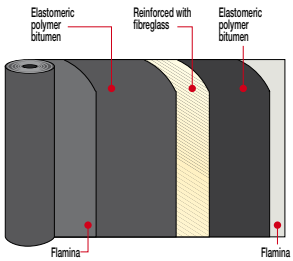
HELASTOPLAN POLYESTER



MINERAL HELASTOPLAN POLYESTER



HELASTOPLAN/V



PRODUCT FINISH

FLAMINA. Plastic protection film helping prevent coils from sticking to the roll. As it withdraws under the action of the flame right during its installation, it signals the best melting point in order to correctly glue the membrane to the brackets and rises. When not heated, it can be used as a sliding layer.

MINERAL PROTECTION. On the visible face of the membrane, a protective coating made up of slate granules of various colours is hot bonded. This mineral shield protects the membrane from ageing caused by UV rays.

- FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUT TECHNICAL OFFICE
- IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS

index
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TOTAL QUALITY index UNI EN ISO 9001 ed. 2000 - Vision

Environmental Management Systems index UNI EN ISO 14001